

APRIL/MAY 2025

**GCA31/DCA31 — ADVANCE JAVA
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is GUI in Java applet?
2. What is the applet security manager, and what does it provide?
3. What you mean by Metadata and also why we use it.?
4. What are the functions of the JDBC Connection interface?
5. How to decide between HashMap and TreeMap?
6. What is EnumSet?
7. What is JSP Expression Language (EL)?
8. What are Servlets?



2187

9. What are some of the pop-up boxes available in JavaScript?.

10. What are Lambda Expressions?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) What is the difference between an Applet and a Java Application?

Or

(b) What are the types of applets in Java? Explain.

12. (a) What is Driver Manager in JDBC?

Or

(b) Explain the main components of JDBC.

13. (a) What is difference between HashMap and Hashtable?

Or

(b) What are similarities and difference between ArrayList and Vector?

14. (a) What are the types of elements with Java Server Pages (JSP)?

Or

(b) Explain the Life Cycle of a Servlet.

15. (a) Why would we want to use multiple threads in our application? Why we need the main thread?

Or

(b) What is Session Tracking? What are the common methods of Session Tracking.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions

16. What are the differences between AWT and Swing? Explain

17. What are the JDBC API components? Explain.

18. What are different Collection views provided by Map interface? Explain.

19. What are the different methods involved in the process of session management in servlets? Explain.

20. Explain Getter and Setter Method with example.

